

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM R5-2018-XXXX
FOR
WESTLAKE FARMS, INC., SANDRIDGE PARTNERS, LP, CITY OF LEMOORE
AND LEPRINO FOODS COMPANY
KINGS COUNTY

This Monitoring and Reporting Program (MRP) is being issued pursuant to Water Code section 13267.

Water Code section 13267 states, in part:

“In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region ... shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports.”

Westlake Farms, Inc., Sandridge Partners, LP, the City of Lemoore, and Leprino Foods Company (collectively referred to as “Dischargers”) are named in this monitoring and reporting program because this MRP is intended to provide information to the Board regarding compliance with Waste Discharge Requirements (WDRs) Order 96-050¹, and the named entities are either regulated under WDRs Order 96-050 or own land where the wastewater regulated by WDRs Order 96-050 will be discharged. The Dischargers shall not implement any changes to this MRP unless and until the Central Valley Water Board adopts, or the Executive Officer issues, a revised MRP. Changes to sample location(s) shall be established with concurrence of Central Valley Water Board staff, and a description of the revised stations shall be submitted for approval by the Executive Officer.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The name of the sampler, sample type (grab or composite), time, date, location, bottle type, and any preservative used for each sample shall be recorded on the sample chain of custody form. The chain of custody form must also contain all custody information including date, time, and to whom samples were relinquished. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Regional Water Board staff. All analyses shall be performed in accordance with Standard Provisions and Reporting Requirements for Waste Discharge Requirements dated 1 March 1991 (Standard Provisions).

Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that they are used by a State Water Resources Control Board (State Water Board) Environmental Laboratory Accreditation Program certified laboratory, or:

¹ The Central Valley Water Board understands that the point at which the wastewater will be disposed of is anticipated to change from lands owned or operated by Westlake Farms, Inc. and Sandridge Partners, LP as part of a tenancy in common to lands owned solely by Sandridge Partners, LP.

1. The user is trained in proper use and maintenance of the instruments;
2. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are maintained and available for at least three years.

If monitoring consistently shows no significant variation in magnitude of a constituent concentration or parameter after at least 12 months of monitoring, the Discharger may request this MRP be revised to reduce monitoring frequency. The proposal must include adequate technical justification for reduction in monitoring frequency.

A glossary of terms used within this MRP is included on page 7.

The Discharger shall monitor the following locations to demonstrate compliance with the requirements of this Order:

| Monitoring Point Name | Monitoring Location Description |
|------------------------------------|--|
| Combined Discharge (CBD-01) | Location where a representative sample of the "Combined Discharge" from the City of Lemoore and Leprino Foods Company can be obtained prior to discharge to the land application area. |
| LAA-001 | Land Application Area. |

DISCHARGE MONITORING

The Dischargers shall monitor the quality of the "Combined Discharge" at CBD-01 after being combined but prior to discharge at the land application area. The wastewater samples shall be representative of the volume and nature of the discharges. Time of collection of the samples shall be recorded. Discharge monitoring shall include at least the following:

| <u>Frequency</u> | <u>Constituent/Parameter</u> | <u>Units</u> | <u>Sample Type</u> |
|------------------|------------------------------|--------------|--------------------|
| Monthly | Total Dissolved Solids | mg/L | Grab |
| Monthly | Fixed Dissolved Solids | mg/L | Grab |
| Monthly | Nitrate as Nitrogen | mg/L | Grab |
| Monthly | Nitrite as Nitrogen | mg/L | Grab |
| Monthly | Ammonia as Nitrogen | mg/L | Grab |
| Monthly | Total Kjeldahl Nitrogen | mg/L | Grab |
| Monthly | Total Nitrogen | mg/L | Grab |
| Monthly | Sodium | mg/L | Grab |
| Monthly | Chloride | mg/L | Grab |

LAND APPLICATION AREA MONITORING

The Dischargers shall perform the following monitoring and loading calculations for each field within the land application area at LAA-01. The data shall be collected and presented in both a graphical (map) and tabular format and submitted in quarterly monitoring reports that shall include at least the following:

| <u>Frequency</u> | <u>Constituent/Parameter</u> | <u>Units</u> | <u>Sample Type</u> |
|--|--------------------------------------|-------------------|------------------------|
| Daily | Application area (i.e., Field #) | Acres | n/a |
| Daily | Wastewater flow | Gallons | Metered |
| Daily | Wastewater loading | Inches/day | Metered |
| Daily | Fresh water | Inches/day | Metered |
| Daily | Precipitation | Inches | Rain gage ¹ |
| Month | Total Hydraulic loading ² | Inches/acre-month | Calculated |
| <u>BOD₅ loading³</u> | | | |
| Monthly | From wastewater | lbs/ac/month | Calculated |
| <u>Nitrogen loading⁴</u> | | | |
| Monthly | From wastewater | lbs/ac/month | Calculated |
| Monthly | From fertilizers | lbs/ac/month | Calculated |
| <u>Salt loading⁴</u> | | | |
| Monthly | From wastewater | lbs/ac/month | Calculated |

1. National Weather Service or CIMIS data from the nearest weather station is acceptable.
2. Combined loading from wastewater, fresh water, and precipitation for the month.
3. BOD₅ loading shall be calculated monthly using the applied volume of wastewater, applied acreage, and monthly average effluent BOD₅ concentrations for the Combined Discharge taken as part of the monitoring and reporting requirements for Order 96-050.
4. Nitrogen, and salt loading shall be calculated monthly using the applied volume of wastewater, applied acreage, and monthly effluent concentrations for total nitrogen, and FDS, respectively, for the month.

The quarterly monitoring reports shall also identify the type of crops grown on each parcel and when the fields are planted and the crops harvested. In addition, the Discharger shall inspect the land application areas weekly for evidence of erosion, field saturation, runoff, or the presence of nuisance conditions (i.e., flies, ponding, etc.). The results shall be noted in field logs and included as part of the quarterly monitoring reports.

REPORTING

All monitoring results shall be reported in **Quarterly Monitoring Reports**, which are due by the first day of the second month after the calendar quarter. Therefore, monitoring reports are due as follows:

- First Quarter Monitoring Report: **1 May**
- Second Quarter Monitoring Report: **1 August**
- Third Quarter Monitoring Report: **1 November**
- Fourth Quarter Monitoring Report: **1 February.**

The Central Valley Water Board has gone to a Paperless Office System. All regulatory documents, submissions, materials, data, monitoring reports, and correspondence shall be

converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be mailed to: centralvalleyfresno@waterboards.ca.gov. Documents that are 50MB or larger should be transferred to a disc and mailed to the appropriate regional water board office, in this case 1685 E Street, Fresno, CA, 93706.

To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any email used to transmit documents to this office:

Program: Non-15, WDID: 5D160104001, Facility Name: Interim Application Area,
Time Schedule Order: R5-2018-XXXX.

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. In addition to the details specified in Standard Provision C.3, monitoring information shall include the method detection limit (MDL) and the Reporting limit (RL) or practical quantitation limit (PQL). If the regulatory limit for a given constituent is less than the RL (or PQL), then any analytical results for that constituent that are below the RL (or PQL) but above the MDL shall be reported and flagged as estimated.

Laboratory analysis reports do not need to be included in the monitoring reports; however, the laboratory reports must be retained for a minimum of three years in accordance with Standard Provision C.3.

All monitoring reports shall comply with the signatory requirements in Standard Provision B.3. For a Discharger conducting any of its own analyses, reports must also be signed and certified by the chief of the laboratory.

All monitoring reports that involve planning, investigation, evaluation, or design, or other work requiring interpretation and proper application of engineering or geologic sciences, shall be prepared by or under the direction of persons registered to practice in California pursuant to California Business and Professions Code sections 6735, 7835, and 7835.1.

A. All Quarterly Monitoring Reports shall include the following:

Discharge Monitoring Reporting:

1. Tabulated results of sampling required of the "Combined Discharge" specified on page 2.

Land Application Area Monitoring Reporting:

1. The results of monitoring and loading calculations specified on page 3.
2. Calculation of the hydraulic load for wastewater and fresh irrigation water to the land application area in gallons and/or acre-inches.
3. A summary of the notations made in the log book during each quarter. The entire contents of the log do not need to be submitted.

4. A map identifying the fields receiving wastewater and what crops are being grown for each month in the quarter.

B. Fourth Quarter Monitoring Reports, in addition to the above, shall include the following:

Facility Information:

1. The names and telephone numbers of persons to contact regarding the discharge for emergency and routine situations.
2. A statement certifying when the flow meter and other monitoring instruments and devices were last calibrated, including identification of who performed the calibrations (Standard Provision C.4).
3. A summary of any changes in processing that might affect waste characterization and/or discharge flow rates.

Discharge Monitoring Reporting:

1. A summary of tabulated results of effluent monitoring specified on page 2.

Land Application Area Reporting:

1. The type of crop(s) grown growing within the land application area by field including planting and harvest dates, and the quantified nitrogen and fixed dissolved solids uptakes including potassium (as estimated by technical references or, preferably, determined by representative plant tissue analysis).
2. The monthly and annual discharge volumes by field during the reporting year expressed as million gallons and inches.
3. The total pounds of biochemical oxygen demand (BOD₅) applied to the land application areas as wastewater in lbs/acre/day for each field, as calculated from the sum of the monthly mass loadings.
4. The total pounds of nitrogen applied to the land application area as wastewater and fertilizer in lbs/acre-year for each field, as calculated from the sum of the monthly mass loadings.
5. The total pounds of fixed dissolved solids (FDS) that have been applied to the land application areas in lbs/acre-year for each field, as calculated from the sum of the monthly mass loadings.

A letter shall accompany each monitoring report. The letter shall report violations found during the reporting period, and actions taken or planned to correct the violations and prevent future violations. The transmittal letter shall contain the following penalty of perjury statement and shall be signed by the Discharger or the Discharger's authorized agent:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of the those individuals immediately responsible for obtaining the information, I believe that the

information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.”

The Dischargers shall implement the above monitoring program as of the date of this MRP.

Ordered by: _____

PAMELA C. CREEDON, Executive Officer

(Date)

TENTATIVE

GLOSSARY

| | |
|-------------------|--|
| BOD ₅ | Five-day biochemical oxygen demand |
| CBOD | Carbonaceous BOD |
| DO | Dissolved oxygen |
| EC | Electrical conductivity at 25° C |
| FDS | Fixed dissolved solids |
| NTU | Nephelometric turbidity unit |
| TKN | Total Kjeldahl nitrogen |
| TDS | Total dissolved solids |
| TSS | Total suspended solids |
| Continuous | The specified parameter shall be measured by a meter continuously. |
| 24-Hour Composite | Unless otherwise specified or approved, samples shall be a flow-proportioned composite consisting of at least eight aliquots. |
| Daily | Samples shall be collected every day. |
| Twice Weekly | Samples shall be collected at least twice per week on non-consecutive days. |
| Weekly | Samples shall be collected at least once per week. |
| Twice Monthly | Samples shall be collected at least twice per month during non-consecutive weeks. |
| Monthly | Samples shall be collected at least once per month. |
| Bimonthly | Samples shall be collected at least once every two months (i.e., six times per year) during non-consecutive months |
| Quarterly | Samples shall be collected at least once per calendar quarter. Unless otherwise specified or approved, samples shall be collected in January, April, July, and October. |
| Semiannually | Samples shall be collected at least once every six months (i.e., two times per year). Unless otherwise specified or approved, samples shall be collected in April and October. |
| Annually | Samples shall be collected at least once per year. Unless otherwise specified or approved, samples shall be collected in October. |
| mg/L | Milligrams per liter |
| mL/L | Milliliters [of solids] per liter |
| µg/L | Micrograms per liter |
| µmhos/cm | Micromhos per centimeter |
| mgd | Million gallons per day |
| MPN/100 mL | Most probable number [of organisms] per 100 milliliters |
| General Minerals | Analysis for General Minerals shall include at least the following: |
| | Alkalinity Chloride Sodium |
| | Bicarbonate Hardness Sulfate |
| | Calcium Magnesium TDS |
| | Carbonate Potassium |
| | General Minerals analyses shall be accompanied by documentation of cation/anion balance. |